

इंटरनेट

मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 8576 (1977): Purchaser's data sheet for general purpose dryers [MED 17: Chemical Engineering Plants and Related Equipment]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard
**PURCHASER'S DATA SHEET FOR
GENERAL PURPOSE DRYERS**

1. Scope — Covers the technical data to be supplied by a purchaser while placing an enquiry or order to a supplier for the purchase of a general purpose dryer.

2. Purchaser's Data Sheet

PURCHASER'S DATA SHEET FOR GENERAL PURPOSE DRYERS

- 1) Type of dryer (continuous/batch).....
- 2) Function of equipment.....
- 3) Material to be processed.....
 - a) Formula (if chemical).....
- 4) Chemical reaction (if any).....
- 5) Temperature required for reaction.....°C
- 6) Heat of reaction.....J/kg
- 7) Specific heat.....J/(kg. °C)
- 8) Latent heat of vapourization of liquid.. J/kg
- 9) Capacity (product).....kg/h
- 10) Form of feed material:
 - a) Granular.....
 - b) Powder.....
 - c) Flakey.....
 - d) Pellets.....
 - e) Crystals.....
 - f) Other (specify).....
- 11) Properties of feed material:
 - a) Poisonous.....
 - b) Explosive.....
 - c) Corrosive.....
 - d) Abrasive.....
 - e) Sticky.....
 - f) Hygroscopic.....
 - g) Angle of repose.....
 - h) Temperature.....°C
 - j) Bulk density.....kg/m³
 - k) Water of hydration.....molecules
 - m) Free moisture or solvent content.....kg/kg feed
 - n) If solvent, physical properties.....
 - p) Any other property.....
- 12) Immediate source of feed (filters, presses, centrifuges, bins, hoppers or other sources with details of type).....
- 13) Form of discharge material:
 - a) Granular.....
 - b) Crystalline.....
 - c) Powder.....
 - d) Flakes.....
 - e) Pellets.....
 - f) Any other.....

(Continued)

Adopted 26 September 1977

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

PURCHASER'S DATA SHEET FOR GENERAL PURPOSE DRYERS — *Contd*

- 14) Properties of discharge material:
- Free flowing.....
 - Angle of repose.....
 - Abrasive.....
 - Corrosive.....
 - Poisonous.....
 - Explosive.....
 - Sticky.....
 - Hygroscopic.....
 - Colour.....
 - Bulk density..... kg/m³
 - Any other property.....
- 15) Residual free moisture content or solvent content desired (percent, wet basis).....
- 16) Residual water of crystallization desired..... molecules
- 17) Temperature to which product is to be heated to dehydrate to desired residual water of crystallization..... °C
- 18) Equipment into which material is discharged (conveyor, rotary valve, hopper or any other).....
- 19) Maximum allowable temperature of material..... °C
- 20) Results of overheating.....
- 21) Sieve analysis.....
- 22) Recovery of solvent required (Yes/No).....
- 23) Whether dust collection required (Yes/No).....
- Fraction of dust removed..... percent
- 24) Required temperature of the dried product at the outlet..... °C
- 25) Quality standards or tests for dried product.....
- 26) Heating medium available for drying.....
- 27) Cooling medium.....
- 28) Is material contaminated when contacted with combustion gases from:
- Coal.....
 - Oil.....
 - Gaseous fuel.....
 - Any other.....
- 29) Suitable material of construction, if process material is corrosive.....
- 30) Whether a special atmosphere required.....
- If so, the description of special atmosphere.....
- 31) Normal atmospheric conditions (temperature and relative humidity).....
- 32) Steam:
- Pressure..... kPa
 - Temperature..... °C
- 33) Oil:
- Heat of combustion..... J/l
- 34) Gaseous fuel:
- Pressure..... kPa
 - Heat of combustion..... J/m³
- 35) Coal:
- Heat of combustion..... J/kg
- 36) Waste gases:
- Temperature..... °C
 - Quantity..... kg/h
 - Source (from combustion of).....

(Continued)

PURCHASER'S DATA SHEET FOR GENERAL PURPOSE DRYERS — Contd

- 37) Electric supply:
- | | |
|---------------|-----------------------------|
| a) Volts..... | b) Phase..... |
| c) Hertz..... | d) Direct current.....volts |
- 38) Cooling water temperature.....°C
- 39) Compressed air pressure..... kPa
- 40) Material available for pilot plant test (two 250-litre drums or more is a desirable quantity).....
- 41) Present process, if any (State, also the type of dryer being used).....
- 42) Objection to present process.....
- 43) Available space for new equipment:
- | | |
|-----------------|------------------|
| a) Length.....m | b) Breadth.....m |
| c) Height.....m | |

Remarks

- 44) Any special requirements.. ..

EXPLANATORY NOTE

The information given by a purchaser according to this data sheet will enable a manufacturer or supplier to assess the exact requirements of the purchaser and recommend to him the most suitable type of equipment.

International system (SI) of units has been used in the standard. The relationship of these units to other units are given below for guidance:

$$1 \text{ pascal (Pa)} = 1 \text{ newton/square metre (N/m}^2\text{)} \\ = 0.102 \text{ kgf/m}^2$$